

WHAT IS CLAIMED IS:

1. A wireless information storage device, comprising:
a coil antenna having a two-dimensional center for transmitting and/or receiving a signal via
5 wireless communication;
a memory for storing information;
a control unit that generates information by demodulating a signal
received via the coil antenna, and generates a signal to be transmitted via
10 the coil antenna by modulating information stored in the memory; and
a molded case including the coil antenna, wherein the two-dimensional center of the coil antenna is off from the two-dimensional center of the molded case.

15 2. The device of claim 1, wherein:
the molded case has a board-shape; and
the central axis of the coil antenna is approximately parallel to an
axis perpendicular to plane surface of the molded case, and off from the
two-dimensional center of the plane surface of the molded case.

20 3. The device of claim 1, wherein the molded case has a loop-shape.

25 4. The device of claim 1, wherein the molded case has a round shape.

5. The device of claim 1, wherein the control unit further comprises:

a demodulator that generates information by demodulating the received signal;

a modulator that generates the transmitted signal by modulating the stored information; and

a controller that controls reading and writing information.

6. The device of claim 1, wherein the memory is a nonvolatile memory.

7. The device of claim 1, wherein the molded case further includes the memory and the control unit.

8. A wireless information storage device, comprising:

a coil antenna having a two-dimensional center for transmitting and/or receiving a signal via wireless communication;

a memory for storing information;

a control unit that generates information by demodulating a signal received via the coil antenna, and generates a signal to be transmitted via the coil antenna by modulating information stored in the memory; and

a molded case having a two-dimensional center including the coil antenna, wherein each coil antenna is located at a position in the device relatively different from each other when a plurality of devices is

stacked.

9. The device of claim 8, wherein the position is a place where the two-dimensional center of the coil antenna is off from the two-dimensional center of the molded case.

10. A method for putting a wireless information storage device on or into an item having a two-dimensional center, the device which comprises a coil antenna and a molded case having a two-dimensional center including the coil antenna, comprising the step of:

putting the device on or into the item, with the two-dimensional center of the molded case being off from the two-dimensional center of the item.

11. A method for putting a wireless information storage device on or into an item having a two-dimensional center, the device which comprises a coil antenna and a molded case having a two-dimensional center including the coil antenna, comprising the step of:

putting the device at a position in the item relatively different from each other when a plurality of item is stacked.